

## **ABSTRACT OF THE INVENTION**

A plasma display panel with a gray level white balance device is described. The plasma display panel with a gray level white balance device has a digital board, a  
5 display control circuit and a color plasma display panel. The digital board utilizes the gray level white balance device to modify gray levels of the image to fit the gray levels of the color plasma display panel according to a gray level lookup table. The gray level lookup table is established by measuring the color temperature and color deviation of the color plasma display panel at different gray levels. Curve fitting or  
10 linear regression techniques further utilize to enhance the resolution of the gray level lookup table.